

Listing of Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-13 (canceled)

14. (original) A method of operating an electrically operated fluid dispenser for dispensing a fluid onto a substrate, the fluid dispenser having a dispensing valve operatively connected to an electrically operated solenoid, the dispensing valve being movable between open and closed positions for
5 controlling a flow of the fluid from the fluid dispenser, the method comprising:

providing a power switching circuit connected to an unregulated power source supplying a varying voltage;

producing a drive signal having an initial peak current followed by a hold current;

10 modulating a leading edge of the initial peak current with a duty cycle determined as an inverse function of the varying voltage of the unregulated power source; and

applying the initial peak current to the solenoid to operate the solenoid and the dispensing valve with an operational speed independent of the
15 varying voltage of the unregulated power source.

15. (new) The method of claim 14 further comprising:

modulating a trailing edge of the hold current with a duty cycle determined as an inverse function of the varying voltage of the unregulated power source; and

applying the hold current to the solenoid to operate the solenoid and the dispensing valve with an operational speed independent of the varying voltage of the unregulated power source.
